RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: _10/591,633_
Source: _1FwP_
Date Processed by STIC: _9/18/06_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/591,633_   CRF Edit Date: _9/18/06_
Edited by: _AL_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

_✓_ Other: _Sequence 1 - corrected <222> response_

_____
_____

Revised 09/09/2003

IFWP

RAW SEQUENCE LISTING   DATE: 09/18/2006
PATENT APPLICATION: US/10/591,633   TIME: 16:31:09

Input Set : N:\AMC\3696-029-Sequence Listing.txt
Output Set: N:\CRF4\09182006\J591633.raw

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 3 <110> APPLICANT: SIRS-Lab GmbH
 5 <120> TITLE OF INVENTION: Method of enriching/separating prokaryotic DNA by means of
 6       a protein which specifically binds DNA containing non-methylated
 7       CpG motifs
 9 <130> FILE REFERENCE: Pat 3696/29-PCT
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C--> 11 <140> **CURRENT APPLICATION NUMBER: US/10/591,633**
C--> 12 <141> **CURRENT FILING DATE: 2006-09-05**
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14 <160> NUMBER OF SEQ ID NOS: 8
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 543
20 <212> TYPE: DNA
21 <213> ORGANISM: Homo sapiens
23 <220> FEATURE:
24 <221> NAME/KEY: CDS
25 <222> LOCATION: (1)..(543)
27 <400> SEQUENCE: 1
28 ggt gga ggg cgc aag agg cct gtc cct gat cca aac ctg cag cgc cgg    48
29 Gly Gly Gly Arg Lys Arg Pro Val Pro Asp Pro Asn Leu Gln Arg Arg
30   1               5                  10                  15
32 gca ggg tca ggg aca ggg gtt ggg gcc atg ctt gct cgg ggc tct gct    96
33 Ala Gly Ser Gly Thr Gly Val Gly Ala Met Leu Ala Arg Gly Ser Ala
34              20                  25                  30
36 tcg ccc cac aaa tcc tct ccg cag ccc ttg gtg gcc aca ccc agc cag   144
37 Ser Pro His Lys Ser Ser Pro Gln Pro Leu Val Ala Thr Pro Ser Gln
38          35                  40                  45
40 cat cac cag cag cag cag cag cag atc aaa cgg tca gcc cgc atg tgt   192
41 His His Gln Gln Gln Gln Gln Gln Ile Lys Arg Ser Ala Arg Met Cys
42      50                  55                  60
44 ggt gag tgt gag gca tgt cgg cgc act gag gac tgt ggt cac tgt gat   240
45 Gly Glu Cys Glu Ala Cys Arg Arg Thr Glu Asp Cys Gly His Cys Asp
46   65                  70                  75                  80
48 ttc tgt cgg gac atg aag aag ttc ggg ggc ccc aac aag atc cgg cag   288
49 Phe Cys Arg Asp Met Lys Lys Phe Gly Gly Pro Asn Lys Ile Arg Gln
50                  85                  90                  95
52 aag tgc cgg ctg cgc cag tgc cag ctg cgg gcc cgg gaa tcg tac aag   336
53 Lys Cys Arg Leu Arg Gln Cys Gln Leu Arg Ala Arg Glu Ser Tyr Lys
54              100                 105                 110
56 tac ttc cct tcc tcg ctc tca cca gtg acg ccc tca gag tcc ctg cca   384
57 Tyr Phe Pro Ser Ser Leu Ser Pro Val Thr Pro Ser Glu Ser Leu Pro
58              115                 120                 125
60 agg ccc cgc cgg cca ctg ccc acc caa cag cag cca cag cca tca cag   432
61 Arg Pro Arg Arg Pro Leu Pro Thr Gln Gln Gln Pro Gln Pro Ser Gln
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RAW SEQUENCE LISTING   DATE: 09/18/2006
PATENT APPLICATION: US/10/591,633   TIME: 16:31:09

Input Set : N:\AMC\3696-029-Sequence Listing.txt
Output Set: N:\CRF4\09182006\J591633.raw

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62      130                135                140
64 aag tta ggg cgc atc cgt gaa gat gag ggg gca gtg gcg tca tca aca    480
65 Lys Leu Gly Arg Ile Arg Glu Asp Glu Gly Ala Val Ala Ser Ser Thr
66 145                150                155                160
68 gtc aag gag cct cct gag gct aca gcc aca cct gag cca ctc tca gat    528
69 Val Lys Glu Pro Pro Glu Ala Thr Ala Thr Pro Glu Pro Leu Ser Asp
70                 165          170                 175
72 gag gac cta cct ctg                                                 543
73 Glu Asp Leu Pro Leu
74                 180
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 181
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 2
83 Gly Gly Gly Arg Lys Arg Pro Val Pro Asp Pro Asn Leu Gln Arg Arg
84  1               5                  10                 15
86 Ala Gly Ser Gly Thr Gly Val Gly Ala Met Leu Ala Arg Gly Ser Ala
87                20                 25                 30
89 Ser Pro His Lys Ser Ser Pro Gln Pro Leu Val Ala Thr Pro Ser Gln
90             35                 40                 45
92 His His Gln Gln Gln Gln Gln Gln Ile Lys Arg Ser Ala Arg Met Cys
93         50                 55                 60
95 Gly Glu Cys Glu Ala Cys Arg Arg Thr Glu Asp Cys Gly His Cys Asp
96  65                 70                 75                 80
98 Phe Cys Arg Asp Met Lys Lys Phe Gly Gly Pro Asn Lys Ile Arg Gln
99                 85                 90                 95
101 Lys Cys Arg Leu Arg Gln Cys Gln Leu Arg Ala Arg Glu Ser Tyr Lys
102             100                105                110
104 Tyr Phe Pro Ser Ser Leu Ser Pro Val Thr Pro Ser Glu Ser Leu Pro
105         115                120                125
107 Arg Pro Arg Arg Pro Leu Pro Thr Gln Gln Gln Pro Gln Pro Ser Gln
108     130                135                140
110 Lys Leu Gly Arg Ile Arg Glu Asp Glu Gly Ala Val Ala Ser Ser Thr
111 145                150                155                160
113 Val Lys Glu Pro Pro Glu Ala Thr Ala Thr Pro Glu Pro Leu Ser Asp
114                 165                170                 175
116 Glu Asp Leu Pro Leu
117                 180
121 <210> SEQ ID NO: 3
122 <211> LENGTH: 28
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of artificial sequence: Primer
129 <400> SEQUENCE: 3
130 ggatccggtg gagggcgcaa gaggcctg                                      28
133 <210> SEQ ID NO: 4
134 <211> LENGTH: 27
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RAW SEQUENCE LISTING   DATE: 09/18/2006
PATENT APPLICATION: US/10/591,633   TIME: 16:31:09

Input Set : N:\AMC\3696-029-Sequence Listing.txt
Output Set: N:\CRF4\09182006\J591633.raw

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135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of artificial sequence: Primer
141 <400> SEQUENCE: 4
142 aagcttagag gtaggtcctc atctgag                              27
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 26
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Description of artificial sequence: Primer
153 <400> SEQUENCE: 5
154 agcatacaag caaatttttt acaccg                               26
157 <210> SEQ ID NO: 6
158 <211> LENGTH: 24
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of artificial sequence: Primer
165 <400> SEQUENCE: 6
166 gttctgttat tgacacccgc aatt                                 24
169 <210> SEQ ID NO: 7
170 <211> LENGTH: 24
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Description of artificial sequence: Primer
177 <400> SEQUENCE: 7
178 ccttcctaat aatcctgcgg atgt                                 24
181 <210> SEQ ID NO: 8
182 <211> LENGTH: 28
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of artificial sequence: Primer
189 <400> SEQUENCE: 8
190 ctgaaggtag cattagtctt tgataacg                             28
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VERIFICATION SUMMARY   DATE: 09/18/2006
PATENT APPLICATION: **US/10/591,633** TIME: 16:31:10

Input Set : **N:\AMC\3696-029-Sequence Listing.txt**
Output Set: **N:\CRF4\09182006\J591633.raw**

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing
(for reference only)

RAW SEQUENCE LISTING   DATE: 09/15/2006
PATENT APPLICATION: **US/10/591,633**   TIME: 09:35:15

Input Set : **F:\3696-029-Sequence Listing.txt**
Output Set: **N:\CRF4\09152006\J591633.raw**

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  3 <110> APPLICANT: SIRS-Lab GmbH
  5 <120> TITLE OF INVENTION: Method of enriching/separating prokaryotic DNA by means of
  6       a protein which specifically binds DNA containing non-methylated
  7       CpG motifs
  9 <130> FILE REFERENCE: Pat 3696/29-PCT
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/591,633
C--> 12 <141> CURRENT FILING DATE: 2006-09-05
 14 <160> NUMBER OF SEQ ID NOS: 8
 16 <170> SOFTWARE: PatentIn Ver. 2.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 543
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Homo sapiens
 23 <220> FEATURE:
 24 <221> NAME/KEY: CDS
W--> 25 <222> LOCATION: (1)..(561) (543)
 27 <400> SEQUENCE: 1
 28 ggt gga ggg cgc aag agg cct gtc cct gat cca aac ctg cag cgc cgg    48
 29 Gly Gly Gly Arg Lys Arg Pro Val Pro Asp Pro Asn Leu Gln Arg Arg
 30  1               5                  10                  15
 32 gca ggg tca ggg aca ggg gtt ggg gcc atg ctt gct cgg ggc tct gct    96
 33 Ala Gly Ser Gly Thr Gly Val Gly Ala Met Leu Ala Arg Gly Ser Ala
 34              20                  25                  30
 36 tcg ccc cac aaa tcc tct ccg cag ccc ttg gtg gcc aca ccc agc cag   144
 37 Ser Pro His Lys Ser Ser Pro Gln Pro Leu Val Ala Thr Pro Ser Gln
 38          35                  40                  45
 40 cat cac cag cag cag cag cag cag atc aaa cgg tca gcc cgc atg tgt   192
 41 His His Gln Gln Gln Gln Gln Gln Ile Lys Arg Ser Ala Arg Met Cys
 42      50                  55                  60
 44 ggt gag tgt gag gca tgt cgg cgc act gag gac tgt ggt cac tgt gat   240
 45 Gly Glu Cys Glu Ala Cys Arg Arg Thr Glu Asp Cys Gly His Cys Asp
 46  65                  70                  75                  80
 48 ttc tgt cgg gac atg aag aag ttc ggg ggc ccc aac aag atc cgg cag   288
 49 Phe Cys Arg Asp Met Lys Lys Phe Gly Gly Pro Asn Lys Ile Arg Gln
 50                  85                  90                  95
 52 aag tgc cgg ctg cgc cag tgc cag ctg cgg gcc cgg gaa tcg tac aag   336
 53 Lys Cys Arg Leu Arg Gln Cys Gln Leu Arg Ala Arg Glu Ser Tyr Lys
 54              100                 105                 110
 56 tac ttc cct tcc tcg ctc tca cca gtg acg ccc tca gag tcc ctg cca   384
 57 Tyr Phe Pro Ser Ser Leu Ser Pro Val Thr Pro Ser Glu Ser Leu Pro
 58              115                 120                 125
 60 agg ccc cgc cgg cca ctg ccc acc caa cag cag cca cag cca tca cag   432
 61 Arg Pro Arg Arg Pro Leu Pro Thr Gln Gln Gln Pro Gln Pro Ser Gln
```

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RAW SEQUENCE LISTING            DATE: 09/15/2006
PATENT APPLICATION: US/10/591,633    TIME: 09:35:15

        Input Set : F:\3696-029-Sequence Listing.txt
        Output Set: N:\CRF4\09152006\J591633.raw
```

```
62      130                    135                    140
64 aag tta ggg cgc atc cgt gaa gat gag ggg gca gtg gcg tca tca aca    480
65 Lys Leu Gly Arg Ile Arg Glu Asp Glu Gly Ala Val Ala Ser Ser Thr
66 145               150                    155                    160
68 gtc aag gag cct cct gag gct aca gcc aca cct gag cca ctc tca gat    528
69 Val Lys Glu Pro Pro Glu Ala Thr Ala Thr Pro Glu Pro Leu Ser Asp
70                165                    170                    175
72 gag gac cta cct ctg                                                 543
73 Glu Asp Leu Pro Leu
74               180
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 181
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 2
83 Gly Gly Gly Arg Lys Arg Pro Val Pro Asp Pro Asn Leu Gln Arg Arg
84    1               5                    10                    15
86 Ala Gly Ser Gly Thr Gly Val Gly Ala Met Leu Ala Arg Gly Ser Ala
87               20                    25                    30
89 Ser Pro His Lys Ser Ser Pro Gln Pro Leu Val Ala Thr Pro Ser Gln
90          35                    40                    45
92 His His Gln Gln Gln Gln Gln Gln Ile Lys Arg Ser Ala Arg Met Cys
93       50                    55                    60
95 Gly Glu Cys Glu Ala Cys Arg Arg Thr Glu Asp Cys Gly His Cys Asp
96    65                    70                    75                    80
98 Phe Cys Arg Asp Met Lys Lys Phe Gly Gly Pro Asn Lys Ile Arg Gln
99                85                    90                    95
101 Lys Cys Arg Leu Arg Gln Cys Gln Leu Arg Ala Arg Glu Ser Tyr Lys
102            100                    105                    110
104 Tyr Phe Pro Ser Ser Leu Ser Pro Val Thr Pro Ser Glu Ser Leu Pro
105            115                    120                    125
107 Arg Pro Arg Arg Pro Leu Pro Thr Gln Gln Gln Pro Gln Pro Ser Gln
108       130                    135                    140
110 Lys Leu Gly Arg Ile Arg Glu Asp Glu Gly Ala Val Ala Ser Ser Thr
111 145                    150                    155                    160
113 Val Lys Glu Pro Pro Glu Ala Thr Ala Thr Pro Glu Pro Leu Ser Asp
114                165                    170                    175
116 Glu Asp Leu Pro Leu
117            180
121 <210> SEQ ID NO: 3
122 <211> LENGTH: 28
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of artificial sequence: Primer
129 <400> SEQUENCE: 3
130 ggatccggtg gagggcgcaa gaggcctg                                     28
133 <210> SEQ ID NO: 4
134 <211> LENGTH: 27
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RAW SEQUENCE LISTING   DATE: 09/15/2006
PATENT APPLICATION: **US/10/591,633**   TIME: 09:35:15

Input Set : **F:\3696-029-Sequence Listing.txt**
Output Set: **N:\CRF4\09152006\J591633.raw**

```
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of artificial sequence: Primer
141 <400> SEQUENCE: 4
142 aagcttagag gtaggtcctc atctgag                              27
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 26
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Description of artificial sequence: Primer
153 <400> SEQUENCE: 5
154 agcatacaag caaatttttt acaccg                               26
157 <210> SEQ ID NO: 6
158 <211> LENGTH: 24
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of artificial sequence: Primer
165 <400> SEQUENCE: 6
166 gttctgttat tgacacccgc aatt                                 24
169 <210> SEQ ID NO: 7
170 <211> LENGTH: 24
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Description of artificial sequence: Primer
177 <400> SEQUENCE: 7
178 ccttcctaat aatcctgcgg atgt                                 24
181 <210> SEQ ID NO: 8
182 <211> LENGTH: 28
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of artificial sequence: Primer
189 <400> SEQUENCE: 8
190 ctgaaggtag cattagtctt tgataacg                             28
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VERIFICATION SUMMARY　　　　　　　　　DATE: 09/15/2006
PATENT APPLICATION:　**US/10/591,633**　　TIME: 09:35:16

Input Set : **F:\3696-029-Sequence Listing.txt**
Output Set: **N:\CRF4\09152006\J591633.raw**

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:25 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:1, CDS LOCATION: (1)..(561)